

AMENDMENT under 37 C.F.R. § 1.111
U.S. Appl. No. 09/595,557

IN THE CLAIMS:

In accordance with 37 C.F.R. 1.173(2), only amendments having changes to the pending claims or newly presented claims are presented below:

4. (Twice amended) A wireless communication system comprising:

a pattern of cellular radio communication cells; and

a base station for communicating with one or more user stations, the base station dynamically assigned a first transmission frequency for transmitting [to] in a first cell [in] of said pattern of cells, said first transmission frequency not being assigned to any base station for transmitting [to] in any cell in said pattern of cells adjacent to said first cell; and the one or more user stations each assigned a second transmission frequency for transmitting to said base station [for the respective first cell], said second transmission frequency not being assigned to any user station in any cell in said pattern of cells adjacent to said first cell;

wherein said base station and said user stations communicate using time division multiple access.

12. (Amended) A wireless communication system, comprising:

a pattern of cells; and

a base station associated with a first cell in said pattern of cells for communicating with one or more user stations in the first cell;

[one or more user stations;]

wherein said base station is assigned a first transmission frequency for transmitting [to a] in the first cell in the pattern of cells, said first transmission frequency not being assigned to any base station for transmitting [to] in any cell [in] of said pattern of cells adjacent said first cell;

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wherein said user stations in said first cell are assigned a second transmission frequency, said second transmission frequency not assigned to any user stations in any cell in said pattern of cells adjacent said first cell;

wherein said base station is further assigned a first spread spectrum code for modulating radio communication for said first cell; and

wherein said user stations in said first cell are each assigned a second spread spectrum code for modulating radio communication from said first cell).

26. (New) A wireless communication system for communicating amongst a pattern of cellular radio communication cells, the system comprising:

a base station adapted to transmit to a user station in a first cell of said pattern of cells using a dynamically assigned first transmission frequency, the first transmission frequency not being assigned for transmitting from any base station in any cell in said pattern of cells adjacent to the first cell, the base station further adapted to receive from the user station in the first cell using a second assigned transmission frequency which is not assigned to any user station in any cell adjacent to the first cell in the pattern of cells, wherein the base station uses a first spread-spectrum code for modulating radio signal communication in the first cell; and

a control station in communication with the base station and configured to assign the spread-spectrum code;

wherein the pattern of cellular radio communication cells comprises a repeated pattern of classes of cells arranged such that a cell from any one class is not adjacent another cell from a same class of cells and wherein the control station assigns a spread spectrum code for each corresponding class of cells.

27. (New) The wireless communication system of claim 26 wherein the second assigned transmission frequency is dynamically assigned to the user station.

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28. (New) The wireless communication system of claim 26 wherein the spread spectrum code for adjacent cells is identical.

29. (New) The wireless communication system of claim 26 wherein the control station assigns distinguishable spread spectrum codes for adjacent cells.